



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Herget et al.  
Serial No.: 10/723,719  
Filed: November 26, 2003  
Entitled: THERAPEUTIC TARGETS FOR  
THE TREATMENT OF HCV  
INFECTIONS, METHOD OF  
TREATING HCV INFECTIONS AND  
COMPOUNDS USEFUL THEREFOR

Art Unit: 1648

Examiner: Bao Qun Li

Attorney Docket No.: AXM-009.3 US

**Mail Stop AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

**TRANSMITTAL LETTER**

Sir:

Transmitted herewith are: [X] an Information Disclosure Statement (IDS) under 37 CFR §§ 1.56, 1.97 and 1.98 (3 pages); [X] a modified form PTO-1449 Information Disclosure Statement (2 pages); [X] photocopies of the cited documents, to be filed in the above-identified patent application; and [X] a return receipt post card.

**PAYMENT OF FEES**

[X] A check in the amount of \$ 180.00 (check no. 7025) in payment of the fee for submission of an information disclosure statement transmitted herewith.

[X] The Commissioner is hereby authorized to charge payment of any additional fees required under 37 CFR §§ 1.16 or 1.17 in connection with the paper(s) transmitted herewith, or to credit any overpayment of same, to Deposit Account No. 50-0268. A duplicate copy of this transmittal letter is transmitted herewith.

Respectfully submitted,

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### CERTIFICATE OF MAILING

The undersigned hereby certifies that this correspondence and additional documents are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: **Mail Stop AMENDMENT**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

July 25, 2006

date

A handwritten signature in dark ink, appearing to read "Nasim G. Memon".

Nasim G. Memon



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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants submit this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A modified form PTO-1449 listing the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents. This Statement is being submitted after the mailing of a first Office Action, but before the mailing of a final action under 37 C.F.R. § 1.113, a notice of allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution in the application, pursuant to 37 C.F.R. § 1.97(c). A check including the amount of \$180.00 in payment of the fees under 37 C.F.R. § 1.17 (p) is enclosed herewith.

**US Patent Documents**

U.S. 6,033,860 issued March 7, 2000, Lockhart et al.;  
U.S. 6,040,140 issued March 21, 2000, Croce et al.;  
U.S. 6,274,747 B1 issued August 14, 2001, Strelchenok;  
U.S. 6,326,397 B1 issued December 4, 2001, Bollag et al.; and  
U.S. 6,403,554 B2 issued June 11, 2002, Strelchenok.

07/28/2006 RHEBRIGHT 00000031 10723719 180.00 OP  
01 FC:1806

**Foreign Patent Documents**

WO 99/67362 A1 published December 29, 1999, Rumin et al.

**Other Publications**

Bartenschlager et al., *Journal of General Virology*, 81:1631-1648 (2000);  
Brigelius-Flohé, *Free Radical Biology and Medicine*, 27:951-965 (1999);  
Chartier et al., *Journal of Virology*, 70:4805-4810 (1996);  
Chu et al., *Journal of Nutrition*, 129:1846-1854 (1999);  
Cohen, J., *Science*, 285:26-30 (1999);  
Esworthy et al., *Biochimica et Biophysica Acta*, 1381:213-226 (1998);  
Glotzer et al., *Journal of Virology*, 75:2421-2434 (2001);  
Glotzer et al., *Nature*, 407:207-211 (2000);  
Graham et al., *J. gen. Virol.*, 36:59-74 (1977);  
Guha et al., *Lab Animal*, 34:39-47 (2005);  
Heathcote et al., *New England Journal of Medicine*, 343:1673-1680 (2000);  
Herget et al., *Journal of Neurochemistry*, 70:47-58 (1998);  
Holben et al., *Journal of the American Dietetic Association*, 99:836-843 (1999);  
Hoofnagle et al., *New England Journal of Medicine*, 336:347-356 (1997);  
Houghton, Michael, Fields Virology Third Edition, Fields et al., eds (Lippencott-Raven Pub., Philadelphia), Chapter 32, pages 1035-1058 (1996);  
Houglum et al., *Gastroenterology*, 113:1069-1073 (1997);  
Lemay et al., *Virology*, 101:131-143 (1980);  
Lohmann et al., *Science*, 285:110-113 (1999);  
Look et al., *Antiviral Research*, 43:113-122 (1999);  
Michou et al., *Journal of Virology*, 73:1399-1410 (1999);  
Neri et al., *Panminerva Medica*, 42:187-192 (2000);  
Rosen et al., *Molecular Medicine Today*, 5:393-399 (1999);  
Russell, *Journal of General Virology*, 81:2573-2604 (2000);  
Schiedermaier et al., *Hepatology*, 32:4, Pt 2 of 2. Abstract 1437 (2000)  
Schinazi et al., *Antiviral Chemistry & Chemotherapy*, 10:99-114 (1999);

Taylor et al., *Archives of Biochemistry and Biophysics*, 305:600-605 (1993);  
Wingler et al., *European Journal of Biochemistry*, 259:149-157 (1999);  
Wong et al., *American Journal of Public Health*, 90:1562-1569 (2000);  
Zeuzem et al., *New England Journal of Medicine*, 343:1666-1672 (2000); and  
Zhang et al., *Medizinische Klinik*, 94:2-6 (1999).

Applicants do not intend to represent that any of the documents submitted herein is material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicants respectfully request that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,



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July 25, 2006  
Date

  
Nasim G. Memon



<b>Modified FORM PTO-1449</b>		<b>ATTY. DOCKET NO.</b> AXM-009.3 US	<b>SERIAL NO.</b> 10/723,719
<b>LIST OF PATENTS AND PUBLICATIONS APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>		<b>APPLICANT</b> Herget et al.	
(Use several sheets if necessary)		<b>FILING DATE</b> November 26, 2003	<b>ART UNIT</b> 1648

#### REFERENCE DESIGNATION

#### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	US 6,033,860	03/07/00	Lockhart et al.			
	AB	US 6,040,140	03/21/00	Croce et al.			
	AC	US 6,274,747 B1	08/14/01	Strelchenok			
	AD	US 6,326,397 B1	12/04/01	Bollag et al.			
	AE	US 6,403,554 B2	06/11/01	Strelchenok			
	AF						
	AG						

#### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	TRANSLATION YES NO
	BA	WO 99/67362 A1	12/29/99	Rumin et al.			
	BB						

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA	Bartenschlager et al., <i>Journal of General Virology</i> , 81:1631-1648 (2000)
	CB	Brigelius-Flohé, <i>Free Radical Biology and Medicine</i> , 27:951-965 (1999)
	CC	Chartier et al., <i>Journal of Virology</i> , 70:4805-4810 (1996)
	CD	Chu et al., <i>Journal of Nutrition</i> , 129:1846-1854 (1999)
	CE	Cohen, <i>Science</i> , 285:26-30 (1999)
	CF	Esworthy et al., <i>Biochimica et Biophysica Acta</i> , 1381:213-226 (1998)
	CG	Glutzer et al., <i>Journal of Virology</i> , 75:2421-2434 (2001)
	CH	Glutzer et al., <i>Nature</i> , 407:207-211 (2000)
	CI	Graham et al., <i>J. gen. Virol.</i> , 36:59-74 (1977)
	CJ	Guha et al., <i>Lab Animal</i> , 34:39-47 (2005)
	CK	Heathcote et al., <i>New England Journal of Medicine</i> , 343:1673-1680 (2000)
	CL	Herget et al., <i>Journal of Neurochemistry</i> , 70:47-58 (1998)
	CM	Holben et al., <i>Journal of the American Dietetic Association</i> , 99:836-843 (1999)
	CN	Hoofnagle et al., <i>New England Journal of Medicine</i> , 336:347-356 (1997)
	CO	Houghton, Michael, <i>Fields Virology Third Edition</i> , Fields et al., eds (Lippencott-Raven Pub., Philadelphia), Chapter 32, pages 1035-1058 (1996)

	CP	Houglum et al., <i>Gastroenterology</i> , 113:1069-1073 (1997)
	CQ	Lemay et al., <i>Virology</i> , 101:131-143 (1980)
	CR	Lohmann et al., <i>Science</i> , 285:110-113 (1999)
	CS	Look et al., <i>Antiviral Research</i> , 43: 113-122 (1999)
	CT	Michou et al., <i>Journal of Virology</i> , 73:1399-1410 (1999)
	CU	Neri et al., <i>Panminerva Medica</i> , 42:187-192 (2000)
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	CY	Schinazi et al., <i>Antiviral Chemistry &amp; Chemotherapy</i> , 10:99-114 (1999)
	CZ	Taylor et al., <i>Archives of Biochemistry and Biophysics</i> , 305:600-605 (1993)
	DA	Wingler et al., <i>European Journal of Biochemistry</i> , 259:149-157 (1999)
	DB	Wong et al., <i>American Journal of Public Health</i> , 90:1562-1569 (2000)
	DC	Zeuzem et al., <i>New England Journal of Medicine</i> , 343:1666-1672 (2000)
	DD	Zhang et al., <i>Medizinische Klinik</i> , 94:2-6 (1999)
	DE	
	DF	
EXAMINER		DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP §609.  
Draw line through citation if not in conformance and not considered. Include copy of this form with  
next communication to Applicant.

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